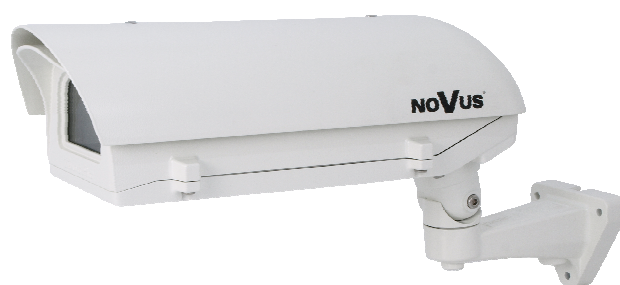


user's manual



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NVH-300H/230
NVH-300H/12/24

NoVus[®]

IMPORTANT SAFEGUARDS AND WARNINGS

EMC (2004/108/EC) and LVD (2006/95/EC) Directives



CE Marking

Our products are manufactured to comply with requirements of following directives and national regulations implementing the directives:

- Electromagnetic compatibility EMC 2004/108/EC.
- Low voltage LVD 2006/95/EC with further amendment. The Directive applies to electrical equipment designed for use with a voltage rating of between 50VAC and 1000VAC as well as 75VDC and 1500VDC.

WEEE Directive 2002/96/EC



Information on Disposal for Users of Waste Electrical and Electronic Equipment

This appliance is marked according to the European Directive on Waste Electrical and Electronic Equipment (2002/96/EC) and further amendments. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

The symbol on the product, or the documents accompanying the product, indicates that this appliance may not be treated as household waste. It shall be handed over to the applicable collection point for the waste electrical and electronic equipment for recycling purpose. For more information about recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.



RoHS Directive 2002/95/EC

Concerning for human health protection and friendly environment, we assure that our products falling under RoHS Directive regulations, regarding the restriction of the use of hazardous substances in electrical and electronic equipment, were designed and manufactured in compliance with mentioned regulation. Simultaneously, we claim that our products were tested and do not contain hazardous substances exceeding limits which could have negative impact on human health or natural environment.

Information

The device, as a part of professional CCTV system used for surveillance and control, is not designed for self installation in households by individuals without technical knowledge.

The manufacturer is not responsible for defects and damages resulted from improper or inconsistent with user's manual installation of the device in the system.

WARNINGS

ATTENTION!

THE KNOWLEDGE OF THIS USER'S MANUAL IS AN INDESPENSIBLE CONDITION OF A PROPER DEVICE OPERATING. YOU ARE KINDLY REQUESTED TO FAMILIARIZE YOURSELF WITH THIS MANUAL BEFORE STARTING THE DEVICE. THE MANUAL SHOULD BE KEPT FOR FUTURE USE.

CAUTION!

ALL REPAIRS CAN BE EXECUTED ONLY BY QUALIFIED STAFF OF THE AUTHORISED NOVUS SERVICE.

CAUTION!

PRIOR TO UNDERTAKING ANY ACTION THAT IS NOT PROVISIONED FOR THE GIVEN PRODUCT IN ITS USER'S MANUAL AND OTHER DOCUMENTS DELIVERED WITH THE PRODUCT, OR THAT ARISES FROM THE NORMAL APPLICATION OF THE PRODUCT, ITS MANUFACTURER MUST BE CONTACTED OR THE RESPONSIBILITY OF THE MANUFACTURER FOR THE RESULTS OF SUCH AN ACTION SHALL BE EXCLUDED.

IMPORTANT SAFEGUARDS AND WARNINGS

1. Read, keep, and follow these instructions. All the safety and operating instructions should be read before the product is operated.
2. Heed all warnings. All warnings on the product and in the instruction manual should be adhered to.
3. Use only attachments / accessories specified by the manufacturer.
4. Do not install this equipment on unstable surfaces. Improper installation may cause dangerous accident or cause unit damage. Recommended minimum load of the installation surface is 25kg.
5. Installation and servicing should be done only by the qualified service personnel and conform to all local codes.
6. All servicing should be carried out after unit is powered off.
7. Do not use any accessories that are not recommended by the manufacturer of the unit.
8. Use only power sources which comply with all the requirements of the manufacturer of the bracket.
9. Signal and power cables should be equipped with surge protection devices. This will prevent damage to the equipment due to lightning or power-line surges.
10. It is recommended to use surge-protection devices in order to avoid equipment damage caused by surges.
11. Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

WARNINGS

12. Prevent from any liquid or any foreign body entering the unit interior.
13. There are no user-serviceable parts inside this unit. Only authorized service personnel may open the unit.
14. Unplug the unit and refer servicing to qualified service personnel under the following conditions:
 - a. When the power supply cord or plug is damaged.
 - b. If liquid has been spilled or objects have fallen in to the unit.
 - c. If the unit does not operate normally by following the operating instructions.
 - e. If the unit has been dropped or the cabinet has been damaged.
 - f. When the unit exhibits a distinct change in performance - this indicates a need for service.
15. Make sure that all spare parts used for unit servicing comply with manufacturer's requirements. Unauthorized servicing and improper parts may cause a risk of fire or electric shock.
16. After any service operations test the unit and functionality of all the attachments / accessories
17. Do not attempt to service the camera yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

INFORMATION

Data included in the following user's manual is up to date at the time of printing. AAT Holding Sp z o.o. holds exclusive rights to modify this manual. The producer reserves the rights for device specification modification and change in the design without prior notice.

MAIN CHARACTERISTIC

1. MAIN CHARACTERISTICS

- ◆ External housing for compact cameras
- ◆ Die-cast aluminium construction with powder coat stove finished, glass window
- ◆ Internal heater allows to operate in temperatures : from - 40°C to 50°C
- ◆ Heater power supply: 230VAC or 24VAC/12VDC, depending on model (housing power supply information is defined in housing name after „/” mark)
- ◆ Degree of protection - IP67
- ◆ Mounting bracket included

2. PACKAGE CONTENTS

The package should contain the following elements:

Housing:	1 pcs
Bracket:	1 pcs
User's manual:	1 pcs
Mounting screws:	4 pcs
Plastic anchors and screws for wall bracket mount	3 pcs
Isolation separator, isolation washer, camera mount screw	1 pcs each
Allen L-Wrench	1 pcs

If the equipment has been damaged during transport or is incomplete, the contents of package should be packed back to the original box. Contact the local NOVUS distributor for further assistance.

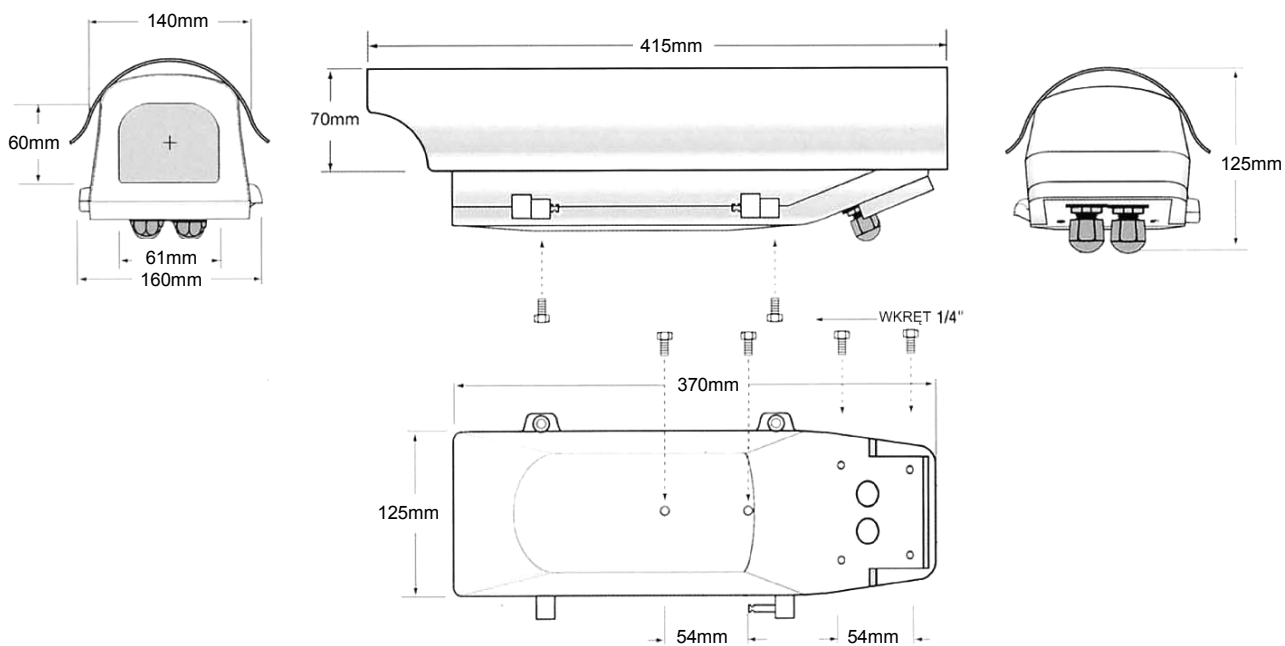
3. SPECIFICATIONS

Housing model and type	NVH-300H/230	NVH-300H/12/24
Type	External for compact camera, bracket with cable channel	
Construction material	aluminum	
Colour	white	
Heater	yes	
Sunshield	yes	
Degree of protection	IP 67	
Power supply	230 VAC	12VDC / 24VAC
Operating temperature	-40°C ~ 50°C	
Dimensions (mm)	415 (L) x 160 (W) x 125 (H)	
Internal space dimensions (mm)	230 (L) x 100 (W) x 60 (H)	
Weight (with mounting bracket)	3 kg	
In set included	housing, bracket, torx, screws, user's manual	

SPECIFICATIONS

3.1 Dimensions details

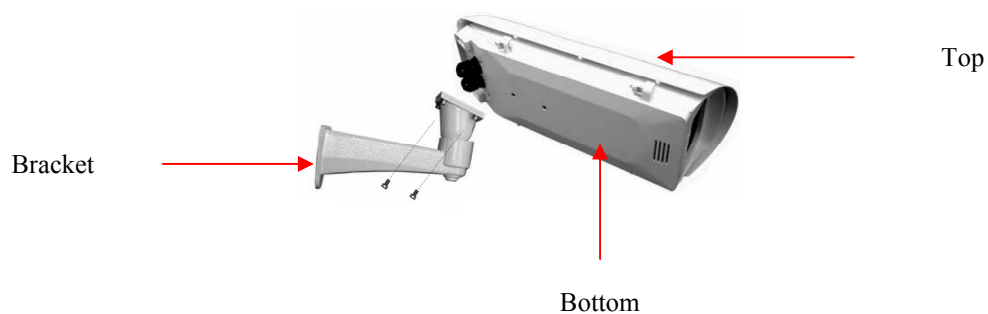
INTERNAL SPACE FOR
LENS AND CAMERA MOUNT
230 L x 100 W x 60 H (mm)



SPECIFICATIONS

3.2. Housing elements

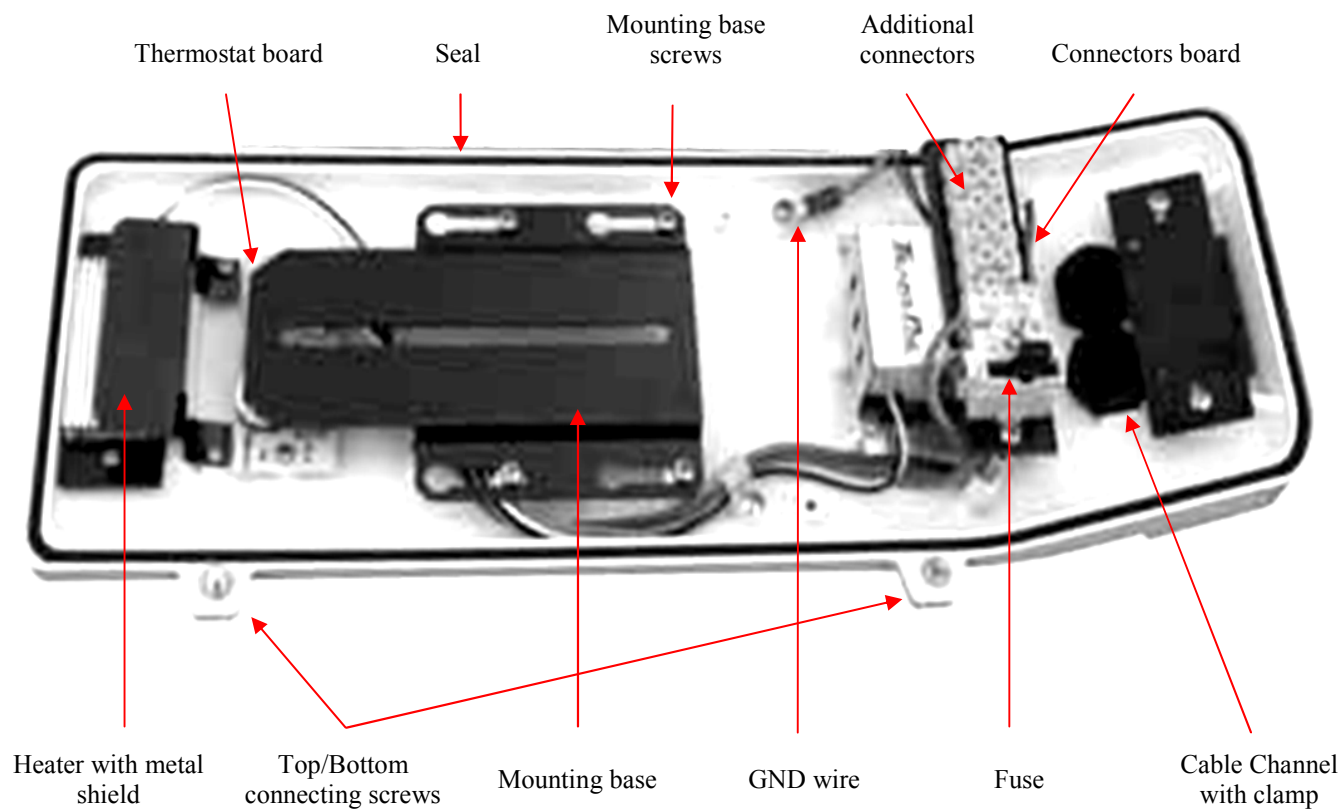
Main parts of NVH-300H housing:



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Unscrew 2 screws to open housing by drawing top part to the side.

See picture below for parts location.

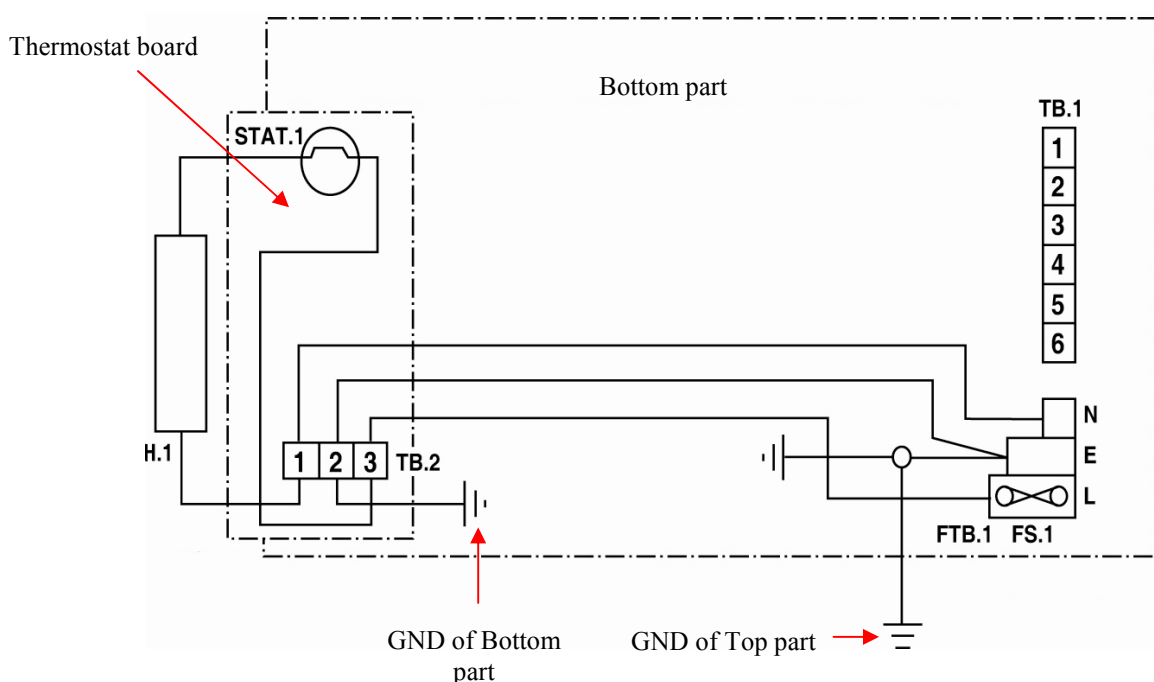


SPECIFICATIONS

3.3. Electrical elements

Housing is equipped with a heater controlled by a thermostat. The heater task is to avoid steam condensation on glass window. That's why heater is located next to the glass window. Depending on housing model, the heater operates with 230 VAC or 12VDC and 24 VAC. The heater is turned on by thermostat when the temperature drops to 18°C and turns it off when temperature reaches 25°C. Thermostat is located on thermostat board. All electrical elements are connected by default. One should connect power supply to additional connectors located in the rear part of the housing (starting from glass window).

Refer to picture below



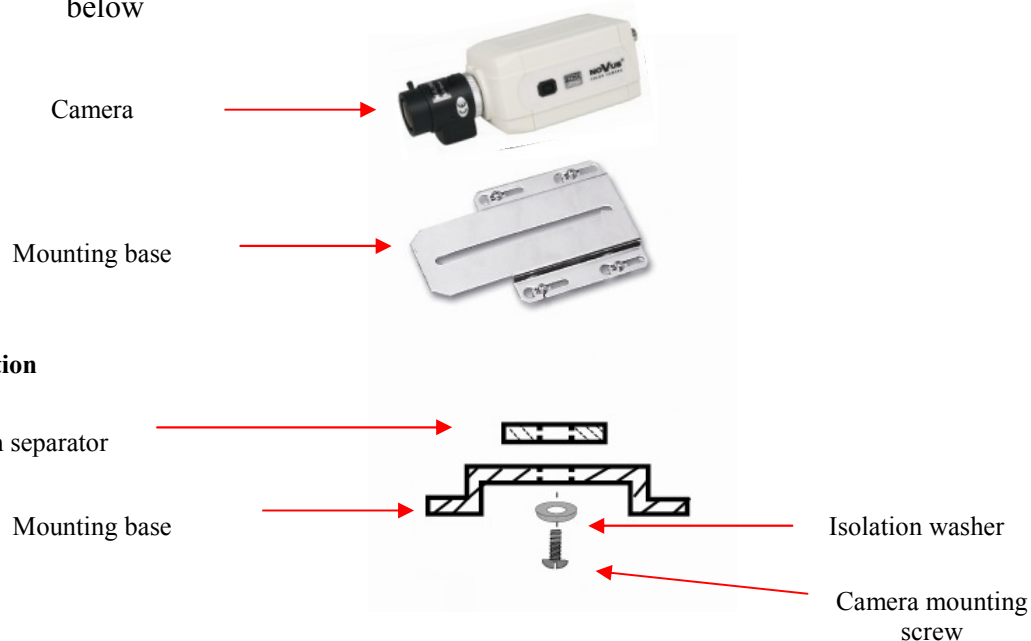
MARK	ELEMENT
H.1	Heater 230VAC or 24VAC/12VDC depending on model
STAT.1	Thermostat
TB.2	Additional connectors on thermostat board (V-IN)
FTB.1 N E L	Terminal connectors on terminal board, for hater connection; - neutral or - 12VDC - GND - live line or + 12VDC
FS.1	fuse
TB.1	Additional terminal connectors for camera power supply etc.

CAUTION: Heater is a non-linear element. Power consumption of heater in steady-state is about 16W. Power consumption in starting stage (especially in low temperatures) may increase several times.

MOUNTING

4. Mounting camera in housing

1. Select suitable mounting location and lead all cables near the bracket.
2. Mark mounting position and drill 3 holes for plastic anchors.
3. Screw on bracket to the wall using 4 tapping screws with plastic anchors.
4. Unscrew 3 screws connecting parts of the housing with Hex L-wrench.
5. Open the housing
6. Feed on the necessary cables through the cable channel and screw on cable clamp for cable channel sealing.
7. Screw on housing to the bracket with 4 screws
8. Connect housing power cables to terminal FTB.1 with proper polarization (refer to previous page)
9. Dismount mounting base (unscrew 4 screws)
10. Screw on camera to the mounting base with additional screw. Remember to use isolation separator and isolation washer for camera isolation. Refer to Picture below



The camera mounting place should be chosen depending on camera-lens length.

CAUTION: It is not advised to install camera-lens kit directly above heater shield. Heat emitted from the heater may cause grease evaporation from mechanical part of lens. It can damage lens mechanism.

11. Screw on mounting base with camera to bottom part of the housing. Longitudinal holes allow to set camera position according to the heater.
12. Connect power and other necessary signals to the camera. Use TB.1 terminal connectors.
13. Check and if necessary set lens focal length and sharpness
14. Close the housing.

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